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IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please CANCEL claims 4 and 5, AMEND claims 1, 4 and 5 and ADD new claims 21-25 in accordance with the following:

1. (CURRENTLY AMENDED) A portable electronic viewer system comprising:
a portable server division, that can be carried in a container by a user, transmitting and receiving book-type contents having page-by-page information containing at least either images or characters; and
a portable viewer division, that can be carried by the user carrying said portable server division, displaying said book-type contents transmitted from said portable server division page-by-page so that a full page is displayed;
said portable server division including:
means for converting a data file into an intermediate data file constituted by a part of information in an image in which a page constitutes a unit and said intermediate data file is configured to have contents which are layered; and
means for transferring each layer of said the intermediate data file so converted to said portable viewer division.

2. (PREVIOUSLY PRESENTED) A portable electronic viewer system as set forth in claim 1, wherein said portable viewer division comprises;
a display panel displaying said book-type contents page by page;
a display memory storing page-by-page information that is to be displayed on said display panel;
a first wireless interface module; and
a first battery supplying power to said display panel and said display memory, and
wherein said portable server division comprises:
a disk storing said book-type contents;
a second wireless interface module performing wireless communications with said first wireless interface module of said portable viewer division;

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a computer processing unit creating page-by-page information from said book-type contents stored in said disk; and

a second battery supplying power to said disk, said second wireless interface module and said computer processing unit.

3. (PREVIOUSLY PRESENTED) A portable electronic viewer system as set forth in claim 1, wherein said means for converting converts a data file having at least one of a document layout, document information, character information and image information into the intermediate data file formed by the part of information in an image, wherein said means for transferring transfers the intermediate data file so converted to said portable viewer division, and wherein said portable viewer division displays a page-by-page image by describing the intermediate data file.

4-5. (CANCELLED)

6. (PREVIOUSLY PRESENTED) A portable electronic viewer system as set forth in claim 2, wherein said intermediate data file is constituted by a plurality of subdivisions, whereby said intermediate data file is sequentially transferred subdivision by subdivision in transferring images, and wherein said portable viewer division describes said intermediate data file in said display memory every time said intermediate data is transferred thereto.

7. (PREVIOUSLY PRESENTED) A portable electronic viewer system as set forth in claim 6, wherein said intermediate data file is configured by layering character information of original image information in accordance with the size of character font, so that priority in transfer is granted to intermediate data files in which larger-sized characters are layered.

8. (PREVIOUSLY PRESENTED) A portable electronic viewer system as set forth in claim 6, wherein the plurality of subdivisions which constitute said intermediate data file include a subdivision of a green element of a color image and a separate subdivision image of an element of a color image other than green.

9. (PREVIOUSLY PRESENTED) A portable electronic viewer system as set forth in claim 6, wherein said intermediate data file is configured by different subdivisions of image

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portions and character portions, and wherein priority in transfer is given to intermediate data files on said subdivisions of image portions.

10. (PREVIOUSLY PRESENTED) A portable electronic viewer system as set forth in claim 6, wherein said portable viewer division has a function to write in said display memory for each address which is a certain interval away from a transferred intermediate data file, and said portable server division generates an intermediate data file in which data are layered for each address having an interval identical to said certain interval.

11. (PREVIOUSLY PRESENTED) A portable electronic viewer system as set forth in claim 6, wherein said intermediate data file is generated by converting character information into a binary image, wherein said portable viewer division has a character gradation processing function, so that said binary image is gradated after being displayed for re-display.

12. (PREVIOUSLY PRESENTED) A portable electronic viewer system as set forth in claim 1, wherein said portable viewer division has a compressed data decompressing function, wherein a page image in which a page constitutes a unit, is data compressed at said portable server division and wherein, after transferring said compressed image, said transferred compressed image is expanded for display by said compressed data decompressing function at said viewer division.

13. (PREVIOUSLY PRESENTED) A portable electronic viewer system as set forth in claim 1, wherein said portable viewer division has a compressed data decompressing function, wherein an intermediate data file, in which a page constitutes a unit, is data compressed at said portable server division, wherein after said compressed intermediate data file has been transferred, said transferred compressed image is expanded by said compressed data decompressing function at said portable viewer division, and wherein hierarchical data so transferred, is displayed every time said data is transferred.

14. (PREVIOUSLY PRESENTED) A portable electronic viewer system as set forth in claim 3, wherein said portable server division and said portable viewer division each have a plurality of wireless interface modules, and wherein said portable server division divides an intermediate data file constituted by a page image, in which a page constitutes a unit, into a number of intermediate data files equal to the number of said wireless interface modules, and

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thereafter transfers from said plurality of wireless interface modules said divided intermediate data files and data indicating a writing order of said divided intermediate data files, while said portable viewer division writes in a display memory said intermediate data files so transferred following said data writing order.

15. (PREVIOUSLY PRESENTED) A portable electronic viewer system as set forth in claim 3, wherein said portable viewer division has its own specific identification number, wherein said identification number is registered in advance in said portable server division and wherein said identification number is described in an intermediate data file, whereby when the identification number of an intermediate data file sent to said portable viewer division coincides with the identification number that said portable viewer division possesses, the data is described in said display memory.

16. (PREVIOUSLY PRESENTED) A portable electronic viewer system as set forth in claim 6, wherein said portable viewer division has its own specific identification number, wherein said identification number is registered in advance in said portable server division and wherein said identification number is described in an intermediate data file, whereby when the identification number of an intermediate data file sent to said portable viewer division coincides with the identification number that said portable viewer division possesses, hierarchical data on a lower layer is described in said display memory.

17. (PREVIOUSLY PRESENTED) A portable electronic viewer system as set forth in claim 15, wherein a signal comprising the identification number of said portable viewer division is transmitted from said portable viewer division to said portable server division, wherein when said signal is received at said portable server division, said signal is collated with the identification number of a viewer registered therein and wherein when said collation determines that said identification numbers coincide with each other, a publication signal is described in an intermediate data file.

18. (PREVIOUSLY PRESENTED) A portable electronic viewer system as set forth in claim 12, wherein said portable viewer division has its own specific identification number, wherein said identification number is registered in advance in said portable server division and wherein said identification number is described in an intermediate data file, whereby when the identification number of an intermediate data file sent to said portable viewer division coincides

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with the identification number that said portable viewer division holds, a compressed data is decompressed.

19. (PREVIOUSLY PRESENTED) A portable electronic viewer system as set forth in claim 16, wherein a signal comprising the identification number of said portable viewer division is transmitted from said portable viewer division to said portable server division, wherein when said signal is received at said portable server division, said signal is collated with the identification number of a viewer registered therein, and wherein when said collation determines that said identification numbers coincide with each other, a publication signal is described in an intermediate data file.

20. (PREVIOUSLY PRESENTED) A portable electronic viewer system as set forth in claim 13, wherein said portable viewer division has its own specific identification number, wherein said identification number is registered in advance in said portable server division and wherein said identification number is described in an intermediate data file, whereby when the identification number of an intermediate data file sent to said portable viewer division coincides with the identification number that said portable viewer division holds, a compressed data is decompressed.

21. (NEW) A method for converting a data file, comprising:
reading the data file, which includes layout information and at least one of character data and image data; and
converting the data file into an intermediate file having hierarchical layers based on the layout information, each layer containing a different portion of the at least one of character and image data.

22. (NEW) A computer-readable medium encoded with a data structure, comprising:
at least two layers of data representing at least one of characters and images, each layer including layout information defining display formatting for the data in the layer, where the data in each layer is mutually exclusive with respect to other layers in said data structure.

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23. (NEW) A portable server communicating wirelessly with a portable viewer, comprising:

a storage unit storing book-type contents as page information, each page containing at least one of image and character data; and

a transmitter, coupled to said storage unit, transmitting a layered intermediate data file, converted from the page information of the book-type contents, to the portable viewer for display of a full page at a time.

24. (NEW) A portable server as recited in claim 23,

wherein the page information includes layout information defining organization of the at least one of character and image data on each page, and

wherein said portable server further comprises a processor, coupled to said storage unit and said transmitter, converting the page information into the layered intermediate data file by reorganizing the at least one of character and image data according to layers described in the layout information.

25. (NEW) A portable viewer communicating wirelessly with a portable server storing book-type contents as page information, each page containing at least one of image and character data, comprising:

a receiver receiving, from the portable server, layers of hierarchical data including layout information describing display formatting for at least one of character data and image data in the page information of the book-type contents, with each layer mutually exclusive with respect to other layers of the hierarchical data; and

a display, coupled to said receiver, displaying a full page at a time of the at least one of character data and image data in a single layer of the hierarchical data.